

**QUESTIONNAIRE I: CONSEQUENCE ASSESSMENT MODELS**

**SPECIFIC CHARACTERISTICS**

**PART H: PHYSICAL FEATURES OF MODULE**

**MODEL NAME:**

**Identify all applicable physical features that are contained in the model. Describe the model algorithm next to the appropriate features(s) listed.**

1	Stability Classification Turbulence Typing	Pasquill-Gilfford-Turner:
		STAR:
		Irwin:
		Sigma theta:
		Richardson number:
		Monin-Obukhov length:
		TKE-driven:
		Split sigma:
2	Release Elevation	___ground                      ___roof
3	Aerodynamic Effects from Buildings and Obstacles	___building wake                      ___cavity ___K-factors                              ___flow separation

4	<b>Horizontal Plume Meander</b>	
5	<b>Horizontal/Vertical Wind Shear:</b>	
6	<b>Mixing Layer</b>	<input type="checkbox"/> trapping <input type="checkbox"/> lofting <input type="checkbox"/> reflection <input type="checkbox"/> penetration <input type="checkbox"/> inversion breakup fumigation <input type="checkbox"/> temporal variability
7	<b>Cloud Bouyancy</b>	<input type="checkbox"/> neutral [passive] <input type="checkbox"/> dense [negative] <input type="checkbox"/> plume rise [positive]
8	<b>Cloud Liquid Droplet Formation/ Aerosolization</b>	
9	<b>(Radio)chemical Transformation and In-Cloud Conversion Processes</b>	
10	<b>Deposition</b>	<input type="checkbox"/> gravitational setting <input type="checkbox"/> dry deposition <input type="checkbox"/> precipitation scavenging <input type="checkbox"/> resistance theory deposition <input type="checkbox"/> simple deposition velocity <input type="checkbox"/> liquid deposition <input type="checkbox"/> plateout and re-evaporation
11	<b>Resuspension</b>	
12	<b>Radionuclide Ingrowth and Decay</b>	

